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IN THE SPECIFICATION:

(1) The paragraph from page 4, line 5 to page 4, line 12 has been amended as follows:

More specifically, the dots between the entries indicate that there are other recorded data. In ~~this example the example of Figure 2~~, the address records ranging from "CA-112" to "CA-2101" are shown. After "CA-115", the records that have ~~higher~~ numbers higher than "CA-115" are arranged so that such records as "CA-212" will follow. In order to accomplish the above function, the navigation system must be able to quickly search available address records as the user inputs a string of characters.

(2) The paragraph from page 4, line 5 to page 4, line 12 has been amended as follows:

Because the address records are arranged in the alpha-numeric order as noted above, the number "1101" comes long after the number "115". As shown in Figure 2, after the record "CA-115", many records exist until the record ~~"CA-1102"~~ "CA-1101" is reached. There may be several ten or hundred thousands of records to be searched in order to find all records that would fit the description. If the navigation system is going to check all the records to determine the number and records, it takes a long time to find all the desired records. The search time will directly reflect on the response time of the input display.

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(3) The paragraph from page 4, line 34 to page 5, line 3 has been amended as follows:

It is another object of the present invention to provide data representation, data storing and data retrieval method and apparatus which is able to store supplemental data with use of a relatively small storage space for efficiently ~~retrieve retrieving~~ the data from a large data storage.

(4) The paragraph from page 7, line 19 to page 7, line 24 has been amended as follows:

Figures 4A-4B show an example of data files for use in the present invention in which Figure 4A shows a name and address file which stores name and address data in an alpha-numeric order and Figure 4B shows a search and skip file which stores supplemental data for efficiently ~~search and retrieve~~ searching and retrieving the data from the name and address file of Figure 4A.

(5) The paragraph from page 12, line 3 to page 12, line 13 has been amended as follows:

However, the embodiment of Figures 4A-4B still needs improvement because the search and skip file 64 needs a relatively large storage space. For instance, in the typical implementation of the embodiment of Figures 4A and 4B, each offset value takes 32 bits (4 bytes). Thus, 40 bytes of data storage space is required to store the offset value of up to ten (10) records. Further, since the offset generator 54 has

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to consecutively ~~increments~~ increment the offset data, it takes ~~a time for incrementing~~ time to increment the offset data from one desired offset data to another offset data when there is a large difference therebetween.

(6) The paragraph from page 13, line 31 to page 14, line 6 has been amended as follows:

The delta value (value part by 15 bits) following the MSB indicates the number of consecutive records following the particular record, i.e., a distance or an amount of jump, to the next location of the recorded data. As will be explained in detail later, the value part of the delta data changes its characteristics based on the MSB. In this example, if the MSB value is 0, i.e., there is no consecutive recorded data, and the delta value indicates the distance (jump value) to the next recorded data. If the MSB value is 1, i.e., there are consecutive recorded data, and the delta value indicates a number of consecutive records that follow ~~after~~ the first recorded data.

(7) The paragraph from page 15, line 20 to page 15, line 33 has been amended as follows:

In the third delta data, MSB ~~is 1~~ is 0 which indicates that there is no recorded data located consecutively with the previous data, and that the value 33 indicates that the next data is 33 records away from the previous location (offset value 270) of the recorded data. Thus, the offset generator

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54 jumps the offset value to "600" so that the navigation system retrieves the recorded data "SecNameRec 4". The last delta data indicates that there is one consecutive record, thus, the navigation system retrieves the recorded data "SecNameRec 4" at the location "610". In the alternative, the delta data for this recorded data may be represented by MSB 0 with the value 1 (jump to the next offset) because the next record is located one record away from the current offset location.

(8) The paragraph from page 16, line 26 to page 17, line 2 has been amended as follows:

In this instance, the search and skip file 164 includes the entry (search data) "CA-11" which shows that the remaining count is 6 indicating that there are 6 recorded data in the name and address file 62 that start with the search data "CA-11". The navigation system will check the offset value indicating the location of the first recorded data carrying the search data "CA-11" in the name and address file 62, which is in this case, 200 (first offset value). Thus, the offset generator 54 generates the offset data 200 and the navigation system retrieves the recorded data ~~"CA-11"~~ "CA-12" by going to the address (offset location) 200 in the name and address file 62.